



State of Delaware and Mitigation



- ❑ Hazard Mitigation Defined
- ❑ THE HAZARD MITIGATION ASSISTANCE PROGRAMS
- ❑ MITIGATION PLANNING
- ❑ PROJECT COST EFFECTIVENESS



Mitigation Defined



FEMA defines hazard mitigation as any sustained action taken to reduce or eliminate long-term risk to people and property from natural hazards and their effects.



Hazard Mitigation Assistance (HMA) Programs



The FEMA HMA Programs present a critical opportunity to reduce the risk to individuals and property from natural hazards while simultaneously reducing reliance of federal disaster funds.



Hazard Mitigation Assistance (HMA) Programs



Consist of five Programs

- ❑ Hazard Mitigation Grant Program
- ❑ Pre-Disaster Mitigation Program
- ❑ Flood Mitigation Assistance
- ❑ Repetitive Flood Claims
- ❑ Severe Repetitive Loss



Hazard Mitigation Assistance (HMA) Program



Eligible Activities:

- ❑ Acquisition and Demolition of structures
- ❑ Elevation of Existing Structures
- ❑ Dry Floodproofing
- ❑ Minor Localized Flood Reduction Projects



FY 2011 Pre-Disaster Mitigation Program Overview



- Eligible Activities
 - Mitigation Planning
 - Mitigation Projects
 - Information dissemination activities
 - Applicant management cost
 - Sub-applicant management cost



Pre-Disaster Mitigation Program Project - Floodproofing



Christiana Hospital





Hazard Mitigation Grant Program Project





Hazard Mitigation Grant Program - Retrofit





Hazard Mitigation Grant Program - Elevation





Active Mitigation Projects



■ Current Initiatives

- Blades Town Hall Generator
- Wilmington EOC Floodproofing
- Newark Potable Water Pump Retrofit
- New Sewer Line Relocation
- Serpe's Bakery Floodproofing
- Union Church Home Acquisition
- University of Delaware Homeowner's Brochure



Hazard Mitigation Planning



- State Hazard Mitigation Plan
- Local Mitigation Plans
 - New Castle County
 - Sussex County
 - Kent County
 - City of Wilmington
 - University of Delaware



Hazard Mitigation Planning



- State plans required to be updated every 3 years. Next update due June 1, 2013.
- Local plans have a five year update requirement with the first plan (City of Wilmington) due for update the end of 2014.



Hazard Mitigation Planning



Basic Plan Contents

- ☐ Introduction
- ☐ Planning process
- ☐ Community Profile
- ☐ Vulnerability Assessment
- ☐ Capability Assessment
- ☐ Mitigation Strategy
- ☐ Plan Maintenance



Project Cost Effectiveness



- Mitigation projects must be cost effective. For every dollar spent on mitigation projects, you must show at least one dollar in benefits over the life of the project.
- Benefits can be in the form of damages prevented, savings in relocation costs, prevention of loss of wages, etc.
- Is determined by a Benefit-Cost Analysis



Project Cost Effectiveness



- Life of the project varies based on the type of project
 - Elevations – 30 years
 - Floodproofing – 50 years
 - Acquisitions – 100 years
- Currently no provisions to incorporate even documented sea level rise into the Benefit Cost Analysis.



Hazard Mitigation



Questions